

Title (en)  
REDOX FLOW BATTERY AND METHOD OF OPERATION

Title (de)  
REDOXFLUSSBATTERIE UND BETRIEBSVERFAHREN

Title (fr)  
BATTERIE À FLUX RÉDOX ET PROCÉDÉ DE FONCTIONNEMENT

Publication  
**EP 3724942 A1 20201021 (EN)**

Application  
**EP 18829774 A 20181213**

Priority  
• GB 201721016 A 20171215  
• EP 2018084803 W 20181213

Abstract (en)  
[origin: GB2569360A] A redox flow battery system 10 comprises an electrochemical cell 11 divided into first and second electrode compartments 11a, 11b by a porous membrane 13. An electrolyte storage tank 14 has a first volume 14a and a second volume 14b separated from the first volume by a movable separator 15. The first volume 14a of the storage tank 14 is in fluid communication with the first compartment 11a and the second volume 14b of the storage tank 14 is in fluid communication with the second compartment 11b. The system (10) also includes a flow control system configured to move fluid between the first volume 14a of the storage tank and the second volume 14b of the storage tank through the first and second compartments 11a, 11b of the electrochemical cell 11. A drive system may be included to move the movable separator within the storage tank. The electrolyte may comprise ZnI<sub>2</sub>.

IPC 8 full level  
**H01M 8/18** (2006.01); **H01M 4/38** (2006.01); **H01M 8/04276** (2016.01); **H01M 8/0438** (2016.01); **H01M 8/04537** (2016.01); **H01M 8/04746** (2016.01); **H01M 10/42** (2006.01); **H01M 50/77** (2021.01)

CPC (source: EP GB US)  
**H01M 8/04082** (2013.01 - GB); **H01M 8/04186** (2013.01 - US); **H01M 8/04201** (2013.01 - EP GB US); **H01M 8/04634** (2013.01 - US); **H01M 8/04753** (2013.01 - GB US); **H01M 8/188** (2013.01 - EP GB US); **Y02E 60/50** (2013.01 - EP)

Citation (search report)  
See references of WO 2019115712A1

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